Work Plan Calendar Year 2009

Cooperator:	Kansas Department of Agriculture			
State:	Kansas			
Project:	Emerald Ash Borer Survey			
Project Coordinator:	Laurinda Ramonda			
Agreement Number	09-8453-1227-CA			
Contact Information:	**Address:**	PO Box 19282, Forbes Field Bldg 282, Topeka, Kansas 66619		
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This Work Plan reflects a cooperative relationship between the Kansas Department of Agriculture (KDA) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting an Emerald Ash Borer survey and control program and the related roles and responsibilities of the Kansas Department of Agriculture and USDA-APHIS-PPQ as negotiated.

I) OBJECTIVES AND NEED FOR ASSISTANCE

The Emerald Ash Borer (pest of national concern) has been detected in several states in the United States, but is not known to occur in Kansas. Early detection and containment of this pest is of great importance since it can cause the demise of ash trees. The purpose of the survey will be to identify high risk areas, such as forestry debris dump sites, nursery stock, camping sites, military sites and shade tree plantings.

The need to identify the range of this pest is great and without funding the Kansas Department of Agriculture will be unable to participate in the national trapping survey for the Emerald Ash Borer.

II) RESULTS OR BENEFITS EXPECTED

Early detection and containment of the Emerald Ash Borer are of great importance. The economic and aesthetic impact of the spread of this pest could be devastating. Receiving funding for this national survey to set traps would improve the odds of eradication and containment success.

Benefits of early detection could lessen the severity of the cost associated with tree removal or spread it over a longer period of time to municipalities and land owners. Land owners may also be impacted by higher energy costs if trees need to be removed around residences.

The lumber industry, as well as small manufacturing businesses could lose revenue. The Emerald Ash Borer would negatively impact the value of ash lumber resources and may cause markets to be lost as a result of quarantines, as we have seen in other states. We may even be left with unmarketable timber or wood that has restricted movement out of a quarantined area.

The nursery industry could have stock rejected by other states as a result of an infestation. Loss of markets, lost customer confidence, and quarantines enacted by other states could cost the industry and the states involved millions.

This survey will provide the Kansas Department of Agriculture, USDA-APHIS-PPQ, and surrounding states with information regarding the status of this pest. The information can be used to determine appropriate response actions if positive finds are confirmed by USDA.

III) APPROACH

What is the plan of action or approach to the work?

Purple prism traps with an 80% Manuka oil and 20% Phoebe oil lure with a 50 mg/day release rate will be used. Traps will be set at selected sites in ash trees, preferably on the sunny side (south or southwest) of the tree at 1 trap/1 ½ mile^2. Lure and extract is good in the field for 60 days. These may need to be replaced once during the flight season. Traps should be checked at least once during the season. A trap inspection should be done during lure replacement.

Any specimens collected should be placed in a vial with 70% ethanol and sent via overnight service to:

Dr. James Zablotny
USDA, APHIS, PPQ
11200 Metro Airport Center Drive, Suite 140
Romulus, MI 48174

Identification of up to 50 high risk sites will be selected. Site selection will be based on ash density in nurseries, sawmills, landscaped areas, forest debris dump sites, urban areas, forest areas, military sites and recreational camping areas.

A. The Cooperator and APHIS Mutually Agree to/that:

- Set traps in 50 sites (200 taps).
- Share in checking of traps.
- Share in removing traps.
- Split funding as noted in financial plan.

1. What is the quantitative projection of accomplishments to be achieved?

a. Anticipated accomplishments:

1. Fact sheets, webpage, resources and pest reporting will be continually updated as new information becomes available or new pests found.
2. Survey data will be entered into NAPIS and ISIS databases.
3. Trapping will occur during April 15, 2009 through September 2009.

b. Criteria to evaluate the results and successes of the project:

1. Pest detection survey completed.
2. All data collected from the pest detection survey will be entered into NAPIS and ISIS databases.
3. Maps of the pest detection survey activities are produced to aid in planning of future pest detection surveys, pathway risk analysis and outreach activities.
4. State CAPS and KDA meetings to keep updated on issues.

c. Methodology used to determine if identified needs are met and results and benefits achieved:

1. Review of the NAPIS and ISIS databases to ensure that data from the pest detection activities have been entered.
2. Review the accomplishment reports, supporting outreach materials (if applicable) and maps.

2. Types of data to be collected and how it will be maintained:

a. All survey data from cooperative agreements involving pest survey will be entered by the State Survey Coordinator or KDA staff into the NAPIS and ISIS databases to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status and survey method.
b. Complete, accurate and timely pest survey data will be entered into NAPIS and ISIS using approved protocol.

B. The Cooperator will:

Trap 25 sites (100 traps) to include areas based on ash density, nurseries, sawmills, landscaped areas, forest debris dump sites, urban areas, forest areas, military sites and camping areas. Increased trapping efforts will be at camping areas.

1. By function, what work is to be accomplished?

- Set 100 traps in 25 high risk sites.
- Change lure in traps every 60 days.
- Check traps at least once during season.
- Start setting traps by middle of April, if traps have been received.
- Remove traps by the end of September.
- Enter data into NAPIS and ISIS databases.

2. What resources are required to perform the work?

- KDA staff, vehicle, fuel, GPS units, PDA units and computers.

3. What numbers and types of personnel will be needed and what will they be doing?

- KDA staff will be setting and checking traps.
- Data acquired will be entered into NAPIS and ISIS by State Survey Coordinator or KDA staff.

4. What equipment will be needed to perform the work?

a. The cooperator will provide GPS units, vehicle, PDA and computers.

b. APHIS will provide traps, lure, cable ties, rebar, spreader and hanger.

c. Equipment that will be purchased with APHIS funds will be cleaner with mineral spirits, ends for telescoping poles and telescoping poles, if more needed.

d. The equipment will be used to hang, check, replace lure and remove traps and specimens.

e. The equipment will be maintained at KDA for other surveys upon the termination of the agreement/project.

5. Identify information technology equipment, e.g., computers, and their ancillary components.

- GPS units to document locations
- KDA computers with internet to enter data
- Digital cameras
- PDA

6. What supplies will be needed to perform the work

a. What supplies will be provided by the Cooperator?

- GPS units
- Computers
- Digital cameras
- PDA
- Telescoping poles

b. What supplies will be provided by APHIS?

- Traps
- Lures
- Rebar
- Cable ties
- Spreaders

- Hangers

c. What supplies will be purchased in whole or in part with APHIS funds?

- Cleaner with mineral spirits.
- Telescoping poles and ends, if more needed.

d. How will the supplies be used?

- Surveying for Emerald Ash Borer

e. What is the proposed method of disposition of the supplies with a cumulative value over $5,000 upon termination of the agreement/project?

- N/A

7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?

- Supplies for support in trapping.
- These will be purchased through the KDA fiscal department.

8. What are the travel needs for the project?

- Travel will be required to survey sites with a rental vehicle or KDA vehicle. KDA Plant Protection and Weed Control Plant Program Manager is the approving official. Costs are included in the financial plan.

9. Reports:

a. Submit all reports to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:
   1. Narrative accomplishment reports in the frequency and time frame specified in the Notice of Award, Article 4.
   2. Financial Status Reports, SF-269, in the frequency and time frame specified in the Notice of Award, Article 4.

10. Are there any other contributing parties who will be working on the project?

a. List Participating Agency/Institution: KDA, APHIS, Kansas Forestry, Kansas Wildlife and Parks, Corp of Engineers
b. List all who will work on the project: KDA, APHIS, Kansas Forestry
c. Describe the nature of their effort: Trapping, site selection and outreach
d. Contribution: Site selection, outreach, setting traps, checking traps and removal of traps.

C. APHIS Will:

Trap 25 sites (100 traps) such as military installations, race tracks pallet remanufacturing, camping areas and forest debris dump sites.

1. **What equipment will be needed to perform the work?** Include major items of equipment with a value of $5,000 or more.

   - Vehicle
   - GPS units
   - Computers

   a. Will Equipment be loaned or provided by APHIS? Yes
   Yes, please list:

   - Vehicle will be used by APHIS personnel
   - GPS units will be used by APHIS personnel
   - Computers will be used by APHIS personnel

   b. How will the equipment be used?

   - To set, check and remove traps
   - To locate traps
   - To enter data

IV) GEOGRAPHIC LOCATION OF PROJECT

A. The majority of trapping will take place in the eastern half of Kansas. Emphasis will be placed on higher risk areas of entry into the state for the Emerald Ash Borer. Identification of up to 50 high risk sites will be selected. Site selection will be based on ash density, nurseries, sawmills, landscaped areas, forest debris dump sites, urban areas, forest areas, military sites and camping areas. More emphasis will be placed on camping areas.

B. Many types of terrain will be involved from forests, to rural, to urban areas.

C. Urban and recreational areas might have disruption through human contact.

D. Identify the kind of data to be collected:
Data collected will help identify the movement of the Emerald Ash Borer and identify high risk areas for this pest.

E. All survey data including GPS survey coordinates will be entered into NAPIS and ISIS databases. Survey data includes but not limited to date trap was set, when it was checked and picked up, county and any problems. Pests will be checked and verified by Dr. James Zablotny, USDA, APHIS, PPQ.

F. Criteria to evaluate the results and successes of the project:

- Pest detection survey and outreach activities for the project completed.
- All data collected from the pest detection surveys is entered into NAPIS and ISIS databases.

G. Methodology used to determine if the results and benefits are achieved:

1. Review of the NAPIS and ISIS databases to ensure that data from the pest detection activities has been entered.
2. Review the accomplishment reports, supporting outreach materials (if applicable), and maps.

V) DATA COLLECTION AND MAINTENANCE

1. All survey data from this cooperative agreement involving a pest survey will be entered by the State Survey Coordinator or KDA staff into the NAPIS and ISIS databases. Data to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status and survey method.

2. Complete, accurate and timely pest survey data will be entered into NAPIS and ISIS using approved protocol. The data entry requirements are:

- Enter new national, state and county records into NAPIS database within 48 hours of confirmation of a pest or pathogen identification by a recognized identifier.
- Non-time sensitive records, including negative data, must be entered into NAPIS within 2 weeks of confirmation.
- Negative data should be entered within 2 weeks of decommissioning a trap, obtaining the results from an identifier, or performing a laboratory assay.
- Survey data will be collected with GPS technology for internal pathway analyses. Survey maps will be developed from approved GIS mapping software.

For ISIS, the following should be added to the above.

- Survey data and diagnostic results will be entered into the national Integrated Survey Information System (ISIS) database as close to real time as possible, including both positive and negative results.
- All data elements will be provided nationally and will be entered into ISIS.
- Data management processes and information will be provided nationally.

V) TAXONOMIC SUPPORT

Person or Institution that will screen targets

Dr. James Zablotny
USDA, APHIS, PPQ
11200 Metro Airport Center Drive, Suite 140
Romulus, MI 48174

Phone: 734-942-9005
E-mail: james.e.zablotny@aphis.usda.gov

Screened to what taxonomic group (e.g., family or genus name)?

Agrilus planipennis

Survey Collection Details: (Total Number of Trap Collections= Number of Sites X Number of Traps X Total Number of Visits)

Target Species	Survey Dates (Starting-Ending)	Number of Sites	Number of Traps/Visual surveys	Number of Visits	Total Number of Collections
Agrilus planipennis (Emerald Ash Borer)	April 15-September 2009 KDA	25	100	3	300
Agrilus planipennis (Emerald Ash Borer)	April 15-September 2009 USDA	25	100	3	300
Total		**50**	**200**	**6**	**600**

V) SIGNATURES

ROAR **Date** **ADODR** **Date**